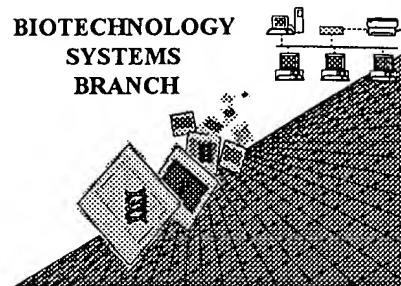


L. Helms

# **RAW SEQUENCE LISTING** **ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/359326

Art Unit / Team No. : 1642

Date Processed by STIC: 2/10/2000

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

**1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**

**2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**MARK SPENCER 703-308-4212**

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/359326

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

- 1        Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2        Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3        Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4        Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5        Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6        Variable Length      Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
- 7        PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s)       . Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section  
to the subsequent amino acid sequence.
- 8        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
                         (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
                         (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
                         This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
                         <400> sequence id number  
                         000
- 10        Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11        Use of <213>Organism      Sequence(s)        are missing this mandatory field or its response.  
(NEW RULES)
- 12        Use of <220>Feature      Sequence(s)        are missing the <220>Feature and associated headings.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13        PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

C. Helms

1642

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/359,326

DATE: 02/10/2000  
TIME: 12:28:17

Input Set: I359326.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

Does Not Comply  
Corrected Diskette Needed

1 <110> APPLICANT: Reiter, Robert E.  
2 Witte, Owen N.  
3 <120> TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF  
4 <130> FILE REFERENCE: 30435.54USI4  
5 <140> CURRENT APPLICATION NUMBER: US/09/359,326  
6 <141> CURRENT FILING DATE: 1999-07-20  
7 <150> EARLIER APPLICATION NUMBER: 09/038,261  
8 <151> EARLIER FILING DATE: 1998-03-10  
9 <150> EARLIER APPLICATION NUMBER: 09/203,939  
10 <151> EARLIER FILING DATE: 1998-12-02  
11 <150> EARLIER APPLICATION NUMBER: 09/251,835  
12 <151> EARLIER FILING DATE: 1999-02-17  
13 <150> EARLIER APPLICATION NUMBER: 09/308,503  
14 <151> EARLIER FILING DATE: 1999-05-17  
15 <160> NUMBER OF SEQ ID NOS: 15  
16 <170> SOFTWARE: PatentIn Ver. 2.0  
17 <210> SEQ ID NO 1  
18 <211> LENGTH: 998  
19 <212> TYPE: DNA  
20 <213> ORGANISM: human PSCA (hPSCA)  
21 <400> SEQUENCE: 1  
22 agggagaggc agtgaccgtg aaggctgtgc tgcttgccct gttgatggca ggcttgggccc 60  
23 tgcagccagg cactgccctg ctgtgctact cctgcaaagc ccaggtgagc aacgaggact 120  
24 gcctgcaggt ggagaactgc acccagctgg gggagcagtg ctggaccgcg cgcacccgcg 180  
25 cagttggcct cctgaccgtc atcagcaaag gctgcagctt gaactgcgtg gatgacttac 240  
26 aggactacta cgtgggcaag aagaacatca cgtgctgtga caccgacttg tgcaacgcca 300  
27 gcggggccca tgccctgcag ccggctgccg ccaccccttc gctgctccct gcactcggcc 360  
28 tgctgctctg gggaccggcg cagctatagg ctctgggggg ccccgctgca gccacactg 420  
29 ggtgtggtgc cccaggcctt tgtgccactc ctcacagaac ctggcccagt gggagcctgt 480  
30 cctggttcct gaggcacatc ctaacgcaag tttgaccatg tatgtttgca ccccttttcc 540  
W--> 31 ccaaccctg accttcccat gggccttttc caggattccn acccggcaga tcagttttag 600  
W--> 32 tganacanat ccgcntgcag atggcccctc caaccntttn tgttgntggt tccatggccc 660  
W--> 33 agcattttcc acccttaacc ctgtgttcag gcacttnttc ccccaggaag ccttccctgc 720  
34 ccaccccatc tatgaattga gccaggtttg gtccgtggtg tccccgcac ccagcagggg 780  
35 acaggcaatc aggaggggccc agtaaaggct gagatgaagt ggactgagta gaactggagg 840  
36 acaagagttg acgtgagttc ctgggagttt ccagagatgg ggcctggagg cctggaggaa 900  
37 ggggccaggc ctcacatttg tggggatccc gaatggcagc ctgagcacag cgtaggccct 960  
38 taataaacac ctgttgata agccaaaaaa aaaaaaaa 998  
39 <210> SEQ ID NO 2  
40 <211> LENGTH: 123  
41 <212> TYPE: PRT  
42 <213> ORGANISM: human PSCA (hPSCA)  
43 <400> SEQUENCE: 2  
44 Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln

PAGE: 2

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/359,326

DATE: 02/10/2000  
TIME: 12:28:17

Input Set: I359326.RAW

```

45          1          5          10          15
46    Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
47          20          25          30
48    Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
49          35          40          45
50    Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
51          50          55          60
52    Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
53          65          70          75          80
54    Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
55          85          90          95
56    Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
57          100          105          110
58    Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
59          115          120
60    <210> SEQ ID NO 3
61    <211> LENGTH: 441
62    <212> TYPE: DNA
63    <213> ORGANISM: murine PSCA (mPSCA)
64    <400> SEQUENCE: 3
65    atgaagacag tttttttttat cctgctggcc acctacttag ccctgcatcc aggtgctgct 60
66    ctgcagtgtt attcatgcac agcacagatg aacaacagag actgtctgaa tgtacagaac 120
67    tgcagcctgg accagcacag ttgctttaca tcgcgcatcc gggccattgg actcgtgaca 180
68    gttatcagta agggctgcag ctcacagtgt gaggatgact cggagaacta ctatttgggc 240
69    aagaagaaca tcacgtgctg ctactctgac ctgtgcaatg tcaacggggc ccacaccctg 300
70    agccgtctgt aggtctctggg agagcctacc atagcccgat tgtgaaggga tgagctgcac 360
71    agccgtctgt aggtctctggg agagcctacc atagcccgat tgtgaaggga tgagctgcac 420
72    tccaccccac cccacacag g 441
73    <210> SEQ ID NO 4
74    <211> LENGTH: 123
75    <212> TYPE: PRT
76    <213> ORGANISM: murine PSCA (mPSCA)
77    <400> SEQUENCE: 4
78    Met Lys Thr Val Phe Phe Ile Leu Leu Ala Thr Tyr Leu Ala Leu His
79          1          5          10          15
80    Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
81          20          25          30
82    Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
83          35          40          45
84    Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
85          50          55          60
86    Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
87          65          70          75          80
88    Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
89          85          90          95
90    Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
91          100          105          110
92    Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
93          115          120
94    <210> SEQ ID NO 5

```

PAGE: 3

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/359,326

DATE: 02/10/2000  
TIME: 12:28:17

Input Set: I359326.RAW

```

95 <211> LENGTH: 131
96 <212> TYPE: PRT
97 <213> ORGANISM: Human Stem Cell Antigen-2 (hSCA-2)
98 <400> SEQUENCE: 5
99   Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
100      1             5             10             15
101   Pro Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
102             20             25             30
103   Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
104             35             40             45
105   Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
106             50             55             60
107   His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
108             65             70             75             80
109   Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
110             85             90             95
111   Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
112             100            105            110
113   Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
114             115            120            125
115   Phe Gly Pro
116             130
117 <210> SEQ ID NO 6
118 <211> LENGTH: 123
119 <212> TYPE: PRT
120 <213> ORGANISM: human PSCA (hPSCA)
121 <400> SEQUENCE: 6
122   Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln
123      1             5             10             15
124   Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
125             20             25             30
126   Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
127             35             40             45
128   Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
129             50             55             60
130   Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
131             65             70             75             80
132   Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
133             85             90             95
134   Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
135             100            105            110
136   Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
137             115            120
138 <210> SEQ ID NO 7
139 <211> LENGTH: 123
140 <212> TYPE: PRT
141 <213> ORGANISM: murine PSCA (mPSCA)
142 <400> SEQUENCE: 7
143   Met Lys Thr Val Leu Phe Leu Leu Leu Ala Thr Tyr Leu Ala Leu His
144      1             5             10             15

```

PAGE: 4

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/359,326

DATE: 02/10/2000  
TIME: 12:28:17

Input Set: I359326.RAW

```

145      Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
146              20              25              30
147      Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
148              35              40              45
149      Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
150              50              55              60
151      Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
152              65              70              75              80
153      Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
154              85              90              95
155      Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
156              100              105              110
157      Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
158              115              120
159      <210> SEQ ID NO 8
160      <211> LENGTH: 20
161      <212> TYPE: DNA
162      <213> ORGANISM: murine PSCA (mPSCA)
163      <400> SEQUENCE: 8
164      ttctcctgct ggccacctac 20
165      <210> SEQ ID NO 9
166      <211> LENGTH: 20
167      <212> TYPE: DNA
168      <213> ORGANISM: murine PSCA (mPSCA)
169      <400> SEQUENCE: 9
170      gcagctcatc ccttcacaat 20
171      <210> SEQ ID NO 10
172      <211> LENGTH: 408
173      <212> TYPE: DNA
174      <213> ORGANISM: SCID Mice
175      <400> SEQUENCE: 10
176      tgcttcttcc tgatggcagt ggttatagga gtcaattcag aggttcagct gcagcagtct 60
177      ggggcagAAC ttgtgaggtc aggggcctca gtcaagttgt cctgcacagc ttctggcttc 120
178      aacattaaag actactatat acactgggtg aatcagaggc ctgaccaggg cctggagtgg 180
179      attggatgga ttgatcctga gaatggtgac actgaatttg tcccgaagtt ccagggcaag 240
180      gccactatga ctgcagacat tttctccaac acagcctacc tgcacctcag cagcctgaca 300
181      tctgaagaca ctgccgtcta ttactgtaaa acgggggggtt tctggggcca agggactctg 360
182      gtcactgtct ctgcagccaa aacgacaccc ccatctgtct atccactg 408
183      <210> SEQ ID NO 11
184      <211> LENGTH: 136
185      <212> TYPE: PRT
186      <213> ORGANISM: SCID Mice
187      <400> SEQUENCE: 11
188      Cys Phe Phe Leu Met Ala Val Val Ile Gly Val Asn Ser Glu Val Gln
189      1              5              10              15
190      Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala Ser Val Lys
191              20              25              30
192      Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr Tyr Ile His
193              35              40              45
194      Trp Val Asn Gln Arg Pro Asp Gln Gly Leu Glu Trp Ile Gly Trp Ile

```

PAGE: 5

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/359,326

DATE: 02/10/2000  
TIME: 12:28:17

Input Set: I359326.RAW

```

195          50          55          60
196  Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe Gln Gly Lys
197      65          70          75          80
198  Ala Thr Met Thr Ala Asp Ile Phe Ser Asn Thr Ala Tyr Leu His Leu
199          85          90          95
200  Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Lys Thr Gly
201          100          105          110
202  Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr
203          115          120          125
204  Thr Pro Pro Ser Val Tyr Pro Leu
205          130          135
206 <210> SEQ ID NO 12
207 <211> LENGTH: 426
208 <212> TYPE: DNA
209 <213> ORGANISM: SCID Mice
210 <400> SEQUENCE: 12
211  ttggtagcaa cagcctcaga tgtccactcc caggccaac tgcagcaacc tgggtctgaa 60
212  ctggtgaggc ctggaacttc agtgaagctg tcctgcaagg cttctggcta tacattctcc 120
213  agctactgga tgcactgggt gaagcagagg cctggacaag gccttgagtg gattggaaat 180
214  attgaccctg gtagtgggta cactaactac gctgagaacc tcaagaccaa ggccacactg 240
215  actgtagaca catcctccag cacagcctac atgcagctca gcagcctgac atctgaggac 300
216  tctgcagtct attactgtac aagccgatct actatgatta cgacgggatt tgcttactgg 360
217  ggccaaggga ctctggtcac tgtctctgca gctacaacaa cagccccatc tgtctatcca 420
218  ctggcc 426
219 <210> SEQ ID NO 13
220 <211> LENGTH: 142
221 <212> TYPE: PRT
222 <213> ORGANISM: SCID Mice
223 <400> SEQUENCE: 13
224  Leu Val Ala Thr Ala Ser Asp Val His Ser Gln Val Gln Leu Gln Gln
225      1          5          10          15
226  Pro Gly Ser Glu Leu Val Arg Pro Gly Thr Ser Val Lys Leu Ser Cys
227          20          25          30
228  Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr Trp Met His Trp Val Lys
229          35          40          45
230  Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Asn Ile Asp Pro Gly
231      50          55          60
232  Ser Gly Tyr Thr Asn Tyr Ala Glu Asn Leu Lys Thr Lys Ala Thr Leu
233      65          70          75          80
234  Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu
235          85          90          95
236  Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Thr Ser Arg Ser Thr Met
237          100          105          110
238  Ile Thr Thr Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
239          115          120          125
240  Ser Ala Ala Thr Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala
241          130          135          140
242 <210> SEQ ID NO 14
243 <211> LENGTH: 453
244 <212> TYPE: DNA

```

Input Set: I359326.RAW

Line	? Error/Warning	Original Text
31	W "N" or "Xaa" used: Feature required	ccnaaccctg accttcccat gggccttttc caggattc
32	W "N" or "Xaa" used: Feature required	tganacanat ccgcntgcag atggcccctc caaccntt
33	W "N" or "Xaa" used: Feature required	agcattttcc acccttaacc ctgtgttcag gcacttnt